独立行政法人理化学研究所　仁科加速器研究センター
第１９５回 RIBF核物理セミナー
RIKEN Nishina Center for Accelerator Based Science
The 195th RIBF Nuclear Physics Seminar

GLOBAL - ultra-low background experiment on the Earth's surface -

嶋　達志 氏
（大阪大学核物理研究センター 准教授）
Prof. Tatsushi Shima
(RCNP, Osaka University)

Ultra-Low background detectors are the essential in "non-accelerator" underground experiments in which the signal rates are extremely low. Such low background detectors will be also useful in recent and future high-precision measurements with use of accelerators for studies of nuclear astrophysics, fundamental symmetries, ad so on.
One of the methods to obtain low background condition in such experiment is to bring compact low-energy accelerators in to deep underground laboratories.
One the other hand, we are developing another method based on a new concept named "GLOBAL (Ground-based Low Back ground laboratory)" to realized detectors on the Earth's surface with the background rates close to those of underground detectors.
GLOBAL will provide new experimental opportunities in various fields of science by allowing one to use highest-performance accelerators and extremely high-sensitivity detectors simultaneously.

＊ The talk will be given in English.

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RIBF Hall (rm.201), RIBF bldg., RIKEN

Contact: Nuclear Physics Seminar Organizing Committee
npsoc@ribf.riken.jp
http://ribf.riken.jp/~seminar/